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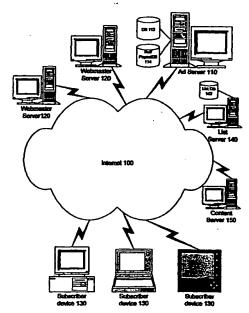
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### (54) Title: METHOD AND APPARATUS FOR AN E-MAIL AFFILIATE PROGRAM



(57) Abstract: The present invention makes it easy to collect, manage, and communicate with consumers using e-mail and other forms of push-based messaging as the primary vehicle for communication of marketing content. The software makes it simple to offer bounties or other types of compensation to any participant interested in referring new users to into the system as well as offer a multiple tier referral system so that those participants can refer others as well. The present invention makes it possible to track the entire path of a communication and all of the actions inside of it for modeling and other analytical purposes; simplifies the process for generating custom marketing communications, in large capacity; simplifies the process of enabling the selection, insertion and delivery of marketing communications inside of the main communication layer and enables an administrator to easily administer all aspects of the software from an intuitive web based interface.

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### Title: Method and Apparatus for an E-mail Affiliate Program

### FIELD OF THE INVENTION

This invention is drawn to an e-mail affiliate program and process for marketing purposes. It includes software for the implementation of a system to produce e-mail marketing lists. A preferred embodiment for these lists is to supply subscribers for Internet publications commonly known as "ezines".

### **BACKGROUND OF THE INVENTION**

In recent years, the exponential growth of the network of computer networks known as the Internet has also lead to enormous growth in the area of "on-line" advertising. One popular channel of on-line advertising has been e-mail.

Typically, entities have collected e-mail addresses from various sources, such as by manually collecting or using spiders or bots to collect e-mail addresses from news groups or auction sites on the Internet. They then broadcast or "spam" an identical, unsolicited marketing message to their collected list. Needless to say, these unsolicited messages annoy most recipients and result in very low response rates. Additionally, many recipients regard the "spam" as an invasion of their privacy. What is needed is a system that sends marketing messages only to those who "opt-in" and increases both the number of participants and/or the number of responses by offering incentives.

### BRIEF SUMMARY OF THE INVENTION

The present invention is drawn to software that allows an enterprise to offer cash, prizes, or incentives to webmasters or consumers in exchange for their assistance in (i) accumulating subscribers or e-mail addresses and/or (ii) getting subscribers to view advertisements or to refer associates to the program.

The subscribers (typically subscribed via their e-mail address) may subscribe for content-based subscriptions/newsletters/alerts, marketing message only-based subscriptions/mailings, and incentive-based subscriptions where the subscriber mayreceive incentives, such as payment in cash, program points toward prizes, discounts on products or

opportunities to win sweepstakes, in exchange for responding to future e-mails and other 1 marketing messages or content delivered through internet-enabled channels. 2 The present invention includes: 3 a) a sign-up means that allows webmasters or consumers to enter their information, 4 including e-mail address, and the right to market to it, online through a web 5 browser so that they can participate into the program; 6 b) a set of instructions and computer coding into which the webmaster or participant 7 must use as a method of which to promote the program, including prompting the 8 user for an action, like entering information or clicking somewhere, before they 9 are eligible; 10 c) a statistical interface which provides the webmaster or participant with a way to 11 see how many subscribers and/or referrals they have generated and or what 12 revenue/prizes/incentives they have accumulated to date (either instantly directly 13 after the transaction, or at any time as a cumulative sum of all chance possibilities 14 that have occurred in the past); and 15 d) a software application which allows an administrator of the program to 16 1) view accounts of participants, 17 2) view number of participants, 18 3) edit information on participants, 19 4) keep track of subscriber and webmaster referral information, and 20 5) send e-mails to the subscribers and/or the participants. 21 The software allows a consumer to sign-up to subscribe for delivery of information or 22 content such as ezines, newsletters, alerts or marketing messages with each such delivery to 23 be sent to the subscriber's e-mail address. Consumers may subscribe for more than one 24 offering (i.e., co-registration). 25 The e-mail delivery system of the present invention includes a system that consists of 26 software and hardware allowing the owner of a mailing list the ability to e-mail out marketing 27 messages to their subscribers and enable them to track the responses of those messages. 28 Tracking of responses includes: 29 a) whether the subscriber received the e-mail, opened the e-mail, read the e-mail, 30 how long they read the e-mail, did they perform any action inside of the e-mail 31

such as fill in information, click on a hyperlink;

1	b) the geographic location of the subscriber(s), area code, domain name, ISP, sex,
2	marital status, occupation, etc this reporting can be in the form of individually
3	reported data or group reported data;
4	c) the ability to track subscribers over time in regards to all of the e-mails they have
5	received, the ads they have received, the ads they have responded to,
6	characteristics about that subscriber, including, but not limited to, observed
7	behavior, demograhic and pyschographic data that is available on the subscriber;
8	d) the ability to track on a timeline when any of the actions, such as opening,
9	clicking, etc., occurred for the population sample mailed to; and
10	e) the ability to send different messages to sample groups with the same info,
11	decision which message is most effective, and send more of the better-performing
12	message to the rest of the population with the same or similar
13	demographics/details.
14	It is an object of the present invention to provide software that allows an enterprise to
15	offer cash, prizes, or incentives to webmasters or consumers in exchange for their assistance
16	in (i) accumulating subscribers or e-mail addresses and/or (ii) getting subscribers to view
17	advertisements or to refer associates to the program.
18	It is an object of the invention to provide the ability to reliably deliver marketing
19	messages to millions of recipients on a periodic or demand basis.
20	It is a further object of the invention to store e-mail marketing information directly in
21	a database instead of flat files or other file formats.
22	It is another object of the invention to import existing participant e-mail marketing
23	information from flat files or other file formats into a new database.
24	It is another object of the invention to keep e-mail marketing statistics about each e-
25	mail subscriber, including: lists subscribed (including start and end date), total number of e-
26	mails sent to this subscriber, which ads e-mailed to this subscriber, and which ads clicked by
27	this subscriber.
28	It is yet another object of the invention to keep statistics about each referring
29	participant in an e-mail marketing program, including the number of subscribers referred and
30	the referring (multi-level) participant.
31	It is an object of the invention to provide the ability for e-mail marketing list creator

to submit each issue's content via a web interface.

It is an object of the invention to provide the ability for e-mail marketing recipients to 1 subscribe or unsubscribe to one or more lists via e-mail via an internet, with web-based 2 3 confirmation. 4 It is another object of the invention to provide the ability to launch list distribution for e-mail marketing via a web-based interface for one or more mailing lists, allowing 5 administrators to specify a time to automatically launch the distribution. 6 It is an object of the invention to provide the ability for participants to sign-up for an 7 e-mail marketing program via a web-based interface, and indicate a referring webmaster or 8 9 subscriber. 10 It is an object of the invention to provide the ability for participants in an e-mail marketing program to check their statistics via a web-based interface. 11 It is another object of the invention to allow subscribers to modify their sign-up 12 profile, including the list of information or content they want to receive. 13 It is another object of the invention to provide the ability to monitor the performance 14 15 of the content delivery in an e-mail marketing system, including status of particular content (current status, % of content delivered, time started/stopped, etc), system throughput (number 16 of recipients per each piece of content delivered, per day, bounced e-mails, etc.), 17 18 subscription/unsubscription per day per particular content, and bandwidth usage. 19 It is another object of the invention to remove bogus/undeliverable addresses in an e-20 mail marketing system. 21 It is another object of the invention to provide an e-mail marketing program with realtime or batch subscribe and delete facilities via a web or an e-mail interface. 22 It is an object of the invention to provide the ability to show ads on "public" web 23 interfaces to the content delivery system in an e-mail marketing program (i.e., when 24 25 subscribers confirm their subscription, show an ad on that page). 26 It is an object of the invention to provide documentation on how each component of 27 an e-mail marketing system works. 28 It is an object of the invention to provide the ability to test an e-mail marketing 29 system. It is an object of the invention to provide a web or an e-mail interface to allow e-mail 30 marketing subscribers to retrieve ezine back issues with new ads. 31

It is an object of the invention to provide personalized content and ads for individual

1	recipients, specifically selecting content based upon attributes in a subscriber database (e.g.,
2	gender, age, chosen topics, etc.).
3	It is an object of the invention to provide an HTML sniffer to determine if a given e-
4	mail marketing subscriber can receive HTML e-mail.
5	It is an object of the invention to provide the ability to add/edit/modify ads stored in a
6	database via web interface.
7	It is an object of the invention to provide the ability to detect fraud in an e-mail
8	marketing program.
9	It is an object of the invention to provide the ability to monitor e-mail marketing
10	system CPU/memory/disk/throughput usage on an hourly/daily/monthly or other assessment
11	period basis.
12	It is an object of the invention to provide the ability to gather info about qmail usage
13	via qmailanalog package.
14	It is an object of the invention to integrate ad responses in an e-mail marketing system
15	with an advertising server, including the ability to track which ads a subscriber responded to.
16	It is an object of the invention to provide the ability to send cookies to subscribers
17	when they confirm their subscription to an e-mail marketing program and link these up with
18	advertiser server cookies.
19	It is an object of the invention to provide the ability to construct new (temporary)
20	"sub-lists" from any set of e-mail marketing subscribers in the database via a web interface.
21	It is an object of the invention to provide the ability for content creators to
22	automatically include ads in an issue without manually inserting lengthy code.
23	It is an object of the invention to keep e-mail marketing statistics about each ad e-
24	mailed, including total times each ad e-mailed, how many times each ad e-mailed per ezine,
25	total times each ad responded to, and total unique responses for each ad.
26	
27	BRIEF DESCRIPTION OF THE DRAWINGS
28	Figure 1 illustrates a basic network architecture for practicing the present invention.
29	Figure 2 illustrates a basic flow diagram for practicing the present invention.
30	•
31	DETAILED DESCRIPTION OF THE INVENTION
32	As used herein, the term "webmaster" refers to any entity, including an individual or

publisher, who uses a website to deliver or generate new subscribers to a product or service. 1 A "participant" refers to any user of the present invention, including a webmaster or a 2 subscriber. 3 The term "click(s)" refers to any measurable response from a consumer, including, 4 but not limited to, selection by a mouse, rollerball, pointer, stylus, jog-dial, or any other user-5 selection device, and/or conversions or sales resulting therefrom. The term "internet" refers 6 to any network of networks, whether wired or wireless, including WANs and global networks 7 such as the ARPAnet-derived network commonly referred to as the Internet and the high-8 bandwidth Internet2. 9 The terms "ad(s)" and "advertisement(s)" refer to any creative or content produced, at 10 least in part, for advertising purposes such as branding or the promotion of products or 11 services. The term "e-mail" refers to any messaging to a specific entity over an internet to an 12 internet-enabled device, including, but not limited to, both ordinary SMTP-based POP3 and 13 IMAP e-mail, instant messaging (IM), and short messaging service (SMS). The term "e-mail 14 address" refers to any identifier of a participant that allows for delivery of messages and/or 15 content to the participant's internet-enabled device, including, but not limited to, standard 16 "name@domain.tld" e-mail addresses, IP addresses, and phone numbers. 17 The following is a rough schema of the tables required by an ezine database of the 18 preferred embodiment. Although described below with reference to an ezine, the system is 19 equally suited for delivery of any information or content requested by subscribers to any 20 internet-enabled device, including, but not limited to, newsletters, marketing messages, alerts 21 22 and other subscriber requested content. The "basic" tables describe individual entities in the ezine system: users (subscribers 23 and webmasters), ads, and the different ezines themselves. These tables do not rely on 24 information from other tables, and so have unique primary (i.e., not composite) keys. 25 Confirmation Table 27

26

28

29 30

31

32

Each row of this table describes one subscriber's confirmation information. Each row need only persist until a subscriber has confirmed their subscription, and can then be deleted. Columns:

(primary key) // required, varchar(80), references email field in user table

// required, varchar(60), 1 ezine code list delimited list of ezines initially signed up for, 2 3 ignored once they have confirmed their signup - look in 4 ezine\_subscriber table instead. 5 referring account number // required, varchar(80), account number in webmaster table 6 references 7 initial signup (before confirmation). Ignored after 8 subscriber confirms - look in ezine subscriber table 9 instead. 10 User Table 11 12 Each row of this table describes information common to any participant (either 13 subscriber or webmaster) 14 Columns: Info for all participants (webmasters or subscribers) 15 • email (primary key) // required, varchar(80) 16 first name // required, varchar(30) 17 18 • last name // required, varchar(30) 19 • zip code // required, char(10) • country // required, varchar(30), range is list of 20 provided countries 21 22 • signup datetime // required, datetime, this is the 23 time when the subscriber is mailed their initial signup 24 letter IP address 25 // required, char(15) • is valid email // required -- is this a valid email 26 27 address, char(1), Y|N 28 • admin comments // optional, text, any comments that we 29 want to add about this user. This is not information 30 the user provides. 31 • is active // optional, char(1), Y|N is this user

```
"active," i.e., can they receive ezines and be paid
 1
 2

    last modified timestamp // timestamp, not null

         • num bounced deliveries // int, number of delivery
 3
             attempts to this user which have bounced
 4
 5
 6
                                Subscriber Table
          Each row of this table describes one subscriber.
 7
 8
    Columns:
          • email (foreign key) // required, varchar(80),
 9
            references email field in user table
10

    confirmation string // required for S, char(64),

11
12
            md5(email) + datetime + process ID
13

    cookie info // required for S, varchar(100)

          • is HTML reader // required, char(1), Y|N -- can this
14
            subscriber receive HTML-ified ezines
15
16
17
    All these are optional info for subscribers. Different ones will be displayed to different
    subscribers when they sign up, based on the referring webmaster.
18
19
          • gender // char(6), Male or Female
          • age // char(10), ranges: <13,13-17,18-21,22-24,25-
20
2i
            29, 30-35, 36-40, 41-49, 50-59, 60-65, 65+
22
          • education level // varchar(40), ranges: "some high
            school," "high school graduate," "some college,"
23
24
            "vocational/technical training," "college graduate,"
            "graduate school," "doctorate"
25
26
          • marital status // char(7), range is married(single
          • num children // char(2), range is 0, 1, 2, 3, 4, 5+
27

    occupation // varchar(40), range: "professional,"

28
            "administrative/clerical," "management,"
29
            "designer/artist," "Internet professional," "educator,"
30
31
            "marketing/sales," "engineer," "writer," "homemaker,"
```

1		"military service," "consultant," "legal field,"
2		"student," "retired," "other"
3	•	income // warchar(10), range: <25K, 25-49K, 50-74K, 75
4		99K, 100-149K, 150-199K, 200K+
5	•	<pre>primary_computer_use // char(40), range is "home,"</pre>
6		"business," "home office," "school," "government
7		facility"
8	•	interests // text, range is a comma-delimited list of
9 .		items that appear as checkboxes on the signup page:
10		sports, travel, entertainment/humor, dining,
11		investments, gaming, computing, autos, men's issues,
12		women's issues, health issues, trivia, astrology
13	•	<pre>items_purchased // varchar(255), any items the</pre>
14		subscriber has purchased on the net
15	•	like_to_purchase // varchar(255), any items the
16		subscriber would like to purchase on the net
17	•	plan_to_purchase // varchar(40), any items the
18		subscriber is planning to purchase in the next year,
19		range: "vehicle," "boat," "house," "computer
20		equipment," "vacation package," "stereo equipment,"
21		"VCR"
22	•	<pre>net_access_frequency // varchar(40), "every day," "once</pre>
23		or twice a week," "two or three times a month," "once a
24		month or less"
25	•	wants_to_receive_email // char(1), Y N does this
26		subscriber want to receive email about items of
27		interest
28	•	<pre>last_modified_timestamp // timestamp, not null</pre>
29	•	email_md5 // varchar(64), not null, this is the md5
30		hash value of the email address
31		

1		webmaster Lable
2		Each row of this table describes one webmaster.
3	Colum	nns:
4	•	email (foreign key) // required, varchar(80), references
5		email field in user table
6	•	<pre>account_name // required, varchar(25), must be &gt;= 6 chars</pre>
7	•	<pre>account_number (primary key, auto_increment) // required,</pre>
8		integer
9	•	password // required, varchar(25), must be >= 6 chars
10	•	address_line_1 // required, varchar(30)
l <b>1</b>	•	address_line_2 // optional, varchar(30)
12	•	city // required, varchar(25)
13	•	state // required, char(2), range is a list of state
14		abbreviations, or N/A to indicate outside the US
15	•	<pre>phone_number // required, varchar(20)</pre>
6	•	<pre>payee_on_check // required, varchar(50)</pre>
7	•	<pre>minimum_check_value // required, decimal(7,2)</pre>
8	•	tax_ID_or_SSN // required, varchar(20)
9	•	referral_rate // required for user referrals,
20	٠	decimal(4,2), default ".10"
21	•	second_tier_rate // required for second-tier
22		referrals, decimal(4,2), default ".04"
23	•	referring_account_number // optional, varchar(80), the
24		user who referred this one, references account_number
25		field in webmaster table
26	•	<pre>referring_URL // optional, varchar(80), website through</pre>
27		which this webmaster was referred
28	•	<pre>last_modified_timestamp // timestamp, not null</pre>
29		
30		Sign-up Field Table
11		Each row of this table describes one possible field of data we want to collect for users

```
1
    Columns:
      • field name (primary key) // required, varchar(30), should
2
3
         exactly match one of the optional subscriber fields in
4
         the user table
      • display name //required - what the user sees on the web
5
6
         page, varchar(255)
7

    data type // required, varchar(12), range is INT, STRING,

8
         DATE, etc.
      • HTML input type // required -- type of control to show
9
10
         for this field on web page, varchar(12), range is
         checkbox, textfield, text, radio button, etc.
11

    value range // optional, text, comma-delimited range if

12
         provided, else free-form text if not provided
13
14
                            Ezine Description Table
15
         Each row of this table describes one ezine.
16
17
    Columns:
18
       • ezine code (primary key) // required, char(2), two-
19
         character ezine code
20
       • ezine name
                                    // required, varchar(30), ezine
21
         name
22

    ezine URL

                                    // required, varchar(80), ezine
23
         location
24
       • short description
                                    // required, varchar(80),
         description in a few words
25
26
       • long description
                                   // required, varchar(255),
27
         several sentence description
28
       thank_you_text
                                   // required, varchar(255), for
29
         signup
30
       • is active
                                       // required, char(1), Y|N --
```

is this an active ezine

```
1

    creation datetime

                                    // datetime, when this ezine was
 2
          created
 3
                                    Ad Table
 4
          Each row of this table describes one ad that can be inserted into an ezine issue
 5
 6
    Columns:
 7
       • banner id (primary key) // required, varchar(30)

    banner text // required, TEXT

 .8
 9
       • banner URL // required, varchar(80)
       • num clicks // required, BIGINT DEFAULT 0
10
       • num impressions // required, BIGINT DEFAULT 0
11
12
       • is active // required, char(1)
       • entry datetime // required, datetime
13
14
15
                                 Advertiser Table
16
          Each row of this table describes one advertiser
17
    Columns:
       • system account (primary key) // varchar (50) not null
18
19
       • advertiser name (unique) // varchar (50), not null
20
21
                               Ad Campaign Table
22
          Each row of this table describes one advertiser campaign
23
    Columns:
24
       • campaign id (primary key) // varchar(30) not null
25
       • system account (unique) // varchar (50) not null,
26
          references system account in advertiser table
27
       • banner id // varchar(30) not null, references banner id
28
          in ads table
29
       • num clicks // bigint default 0
30
       • num impressions // bigint default 0
31
       • start datetime // datetime
```

```
• end datetime // datetime
 1
 2
       • comments // text

    gross payment // decimal(5,2)

 3
       • percent done // int(3)
       • target percent // int(3)
 5
       • unit difference // bigint
 6
       • effective CPM // bigint
 7
 8
 9
          The following tables are derived from information in the basic tables above. They
    also contain some information unique to themselves. Note that these tables could have
10
    duplicate ID keys, but will have unique composite keys.
11
12
                                    Website Table
13
          Each row of this table describes a webmaster and a website (since a webmaster might
14
15
    own several different sites).
16
    Columns:
       • site URL (primary key) //required, varchar(80)
17
       • site name // required, varchar(80)
18
       • site description // required, varchar(255)
19

    account number (foreign key) // required, varchar(80),

20
          references account number field in webmaster table
21
22
                               Website Sign-up Field Table
23
          Each row of this table describes a sign-up field to be displayed to new subscribers
24
    when they are referred by the specified website.
25
26
    Columns:
       • site URL (foreign key) // required, varchar(80),
27
          references site URL field in website table
28
       • field name (foreign key) // required, varchar(30),
29
30
          references field_name in signup field table
       • is required // required -- is this subscriber required to
31
```

```
1
           fill in this field when they signup from this site,
 2
           char(1), Y|N
 3
 4
                              Website Hosted Ezines Table
 5
          Each row of this table describes one ezine that can be hosted by a given website when
 6
     the website is being used by a webmaster to generate subscriptions.
 7
     Columns:
 8
        • ezine code (foreign key) // required, char(2), references
 9
          ezine code in ezine table;
10
       • site URL (foreign key) // required, varchar(80),
          references site_URL in signup field table
11
12
13
                                  User Payout Table
14
          Each row is the payout for a given participant on a given date if the participant is to be
15
    paid for the subscription.
16
    Columns:
17
       • account number (foreign key) // required, varchar(80),
18
          references account_number in webmaster table
19

    amount paid // decimal(14,5), not null

20
       • date paid // required, date, when paid
21
22
                               Ezine Subscribers Table
23
          Each row of this table describes one subscriber to a given ezine
24
    Columns:
25
       • email (foreign key) // required, varchar(80), references
26
          email in user table
27

    ezine code (foreign key) // required, char(2),

28
          references ezine code in ezine table
29
       • signup datetime // required, datetime, when user signed
30
          up to receive this ezine
31
       • last modified timestamp // timestamp, this is the last
```

1		time that the user modified their subscription to this
2		ezine. Initially this is the same as signup_datetime.
3	•	<pre>is_active // required, char(1), Y N is active</pre>
4		recipient of this ezine
5	•	referring_account_number // optional the first (and
6		only) user who referred this subscriber to this ezine,
7		<pre>varchar(80), references account_number key in webmaster</pre>
8		table
9	. •	referring_URL // optional, varchar(80), the website
10		through which the user subscribed to the ezine
11		
12		Ezine Issue Table
13		Each row of this table describes one mailing or issue of any ezine
14	Colum	ans:
15	•	<pre>issue_id (primary key) // required, varchar(30)</pre>
16	•	<pre>ezine_code (foreign_key) // required, char(2), references</pre>
17		ezine_code in ezine table
18	•	<pre>last_modified_timestamp // required, timestamp</pre>
19	•	<pre>req_start_datetime // datetime, when delivery of this</pre>
20		issue was requested to begin
21	•	<pre>actual_start_datetime // datetime, when delivery of this</pre>
22		issue actually began
23	•	<pre>end_queue_datetime // datetime, when this issue was fully</pre>
24		queued
25	•	<pre>end_delivery_datetime // datetime, when issue's delivery</pre>
26		completed
27	•	status // required, char (1), status of this issue's
28		<pre>delivery D S P I (disabled, sent, pending, in progress)</pre>
29	•	<pre>num_recipients // bigint, not null</pre>
30		
31		Ezine Ad Stats Table

1	Each row of this table describes one ad's impression and click statistics for a given		
2	or individual mailing of an ezine.		
3	Columns:		
4	<ul> <li>banner_id (foreign key) // required, varchar(30),</li> </ul>		
5	references banner_id in ad table		
6	<ul> <li>num_clicks // required, bigint, how many times this</li> </ul>		
7	ad has been clicked from this ezine		
8	<ul> <li>position_in_ezine // required, int(3), position of ad in</li> </ul>		
9	ezine		
10	<ul><li>issue_id (foreign_key) // required, varchar(30)</li></ul>		
11	references issue_id in ezine_issue table		
12			
13	Subscriber Click Stats Table		
14	Each row of this table describes one ad that a subscriber has clicked on		
15	Columns:		
16	<ul><li>email_md5 (foreign_key) // required, varchar(64),</li></ul>		
17	references email_md5 in subscriber table		
18	<ul><li>banner_id (foreign_key) // required, varchar(30),</li></ul>		
19	references banner_id in ad table		
20	<ul><li>issue_id (foreign_key) // required, varchar(30),</li></ul>		
21	references issue_id in ezine_issue table		
22			
23	The following tables are for ezines administration purposes		
24			
25 25	Admin User table		
26 	Columns:		
27	• username varchar(80) not null		
28	<ul> <li>password varchar(30) not null</li> </ul>		
29	<ul><li>first_name varchar(30) not null</li></ul>		
30	<ul><li>last_name varchar(30) not null</li></ul>		
31	<ul> <li>signup_datetime datetime not null</li> </ul>		

1	•	<pre>IP_address varchar(15) not null</pre>
2	•	ezine char(1) not null
3	•	user char(1) not null
4	•	internal char(1) not null
5	•	stats char(1) not null
6	•	content char(1) not null
7		
8		Admin Login Log Table
9	Colun	nns:
10	•	username varchar(80) not null
11	•	entry_datetime datetime not null
12	•	IP_address varchar(15) not null
13		
14		Admin Error Log Table
15	Colun	nns:
16	•	username varchar(80) not null
17	•	entry_datetime datetime not null
18	•	IP_address varchar(15) not null
19	•	error_msg varchar(50) not null
20		
21		Admin Activity Log Table
22	Colun	nns:
23	•	username varchar(80) not null
24	•	entry_datetime datetime not null
25	•	IP_address varchar(15) not null
<b>26</b> .	•	function varchar(30) not null
27		
28		ne software of the invention also provides various web interface tools for the ezine
29	system	n, including those used by ezine administrators, webmasters, subscribers, including
30		Ezine Content Creation

This allows a list creator/moderator to submit content for a list.

2	_	Distribution Administration
3	•	Allows ezine administrator to indicate start time for distribution of one or more
4		ezines. Also allows administrator to cancel one or more distributions in progress.
_		Administrator should be able to add or remove subscribers or webmasters, as needed.
5		Stats Viewer
6	•	
7		Allows ad server personnel to view/extract database stats about ads, lists, webmasters,
8		individual ezines, or subscribers.
9	•	Subscriber Sign-up
10		Allows subscribers to sign up for one or more ezines or other information they want.
11		At this point, the user enters their e-mail address and selects the ezines or other
12		information they want. A confirmation number is e-mailed to them, which they must
13		use to confirm their sign-up. If possible, a cookie is put on their device at this point.
14	•	Subscriber Confirmation
15		This is where the user confirms their sign-up for the selected ezines. They are
16		optionally required to fill out a survey. Once completed, they are added to the
17		mailing list for the desired ezines or other information.
18	•	Subscriber Ezine Change
19		Allows subscribers to sign-up for new ezines or cancel subscription to ezines they're
20		already receiving.
21	•	Webmaster Sign-up
22		Allows webmasters to sign up, and indicate a referring (second-tier) webmaster. The
23		webmaster is required to fill out a survey of information.
24	•	Webmaster Stats/Admin
25		Allows webmasters to view the stats for the number of subscribers and webmasters
26		they've referred to the program (and the payout they'll receive). They can also
27		change their account info and get the required HTML code to place on their webpages
28		or get other information needed to refer subscribers.
29	•	Conversion utility
30		Imports existing flat files into a database (i.e., MySQL or Oracle). These are a series
31		of perl or other language scripts that process the various flat files, and write a handful
		of new flat files which contain the combined data. These new flat files can then be
32		of new trat tries which contain the combined data. These new trat tries can then be

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imported into the database via the LOAD or other command.
 1
 2
          Bounce remover
          Removes undeliverable addresses from the database. To facilitate this, the present
 3
          invention adds its own header to each e-mail sent: X-Sent-To: address@domain.com.
 4
 5
          An example of the webmaster coding which can be provided as part of this invention
 6
 7
     is disclosed in the following JavaScript:
 8
9
     <script language="javascript">
10
     function thankyou_ne() {
              var w =
11
    window.open("", "thankyou", "scrollbars=yes, resizable=no, toolbar
12
    =no, directories=no, status=no, menubar=no, location=no, screnX=200
13
14
     ,screenY=200,width=640,height=500");
15
              return true;
16
17
    </script>
18
          This is how the <form> tag is defined:
19
    <form target="thankyou"
20
    action="http://webserverl.teknosurf.com/cgi-bin/subscribc.cgi"
21
    method="post" onsubmit="return (
22
     (this.email.value.indexOf("@")>0 &&
23
    this.email.value.indexOf(".")>0) ? thankyou_ne()
24
25
     : (alert("Please enter a valid email address.") ||
26
     false) )">
27
28
          The following line is added to the form:
29
    <input type="hidden" name="code num" value="1">
30
31
          In operating the present invention, it is preferable to use a webmaster's
    account number instead of account_name in referring_account field. This requires changes
32
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to the import script. Also, if user logs in via account\_name, the system can get the corresponding number and pass that along to the webmaster-\*.cgi scripts.

Figure 1 illustrates a basic network architecture for practicing the present invention, wherein an ad server 110 supplies the needed software to webmaster servers 120 and subscriber devices 130, either directly or indirectly (i.e., via another webmaster server or subscriber device which already has downloaded the software) over internet 100.

In a preferred embodiment, the ad server 110 provides both an ad server database 112 and a referral/payout database 114. The system also can include a separate list server 140, that maintains its own subscriber list database 142, and a separate content server 150.

Figure 2 illustrates a basic flow diagram for practicing the present invention. An initial step 200 in the process is for webmasters to sign-up and download the software needed to practice the invention from an enabling entity such as an ad server. This sign-up can be done in any suitable manner, but is preferably accomplished through use of a web-based sign-up form or page, wherein the webmaster provides the input required for the user table and the webmaster table, as described above. This input can also include any referring webmaster information.

Consumers, likewise at 220, sign-up and download the software they need to practice the invention from an enabling entity such as an ad server or webmaster server. Again, this sign-up can be done in any suitable manner, but is preferably accomplished through use of a web-based sign-up form or page, wherein the consumer provides the input required for the confirmation table, user table, and subscriber table, as described above. This input can also include any referring webmaster or referring subscriber information.

As participants, the webmasters and subscribers have the necessary software/code to refer, at 230, other webmasters and subscribers and this information is tracked by the ad server, at 250.

The information or content that the subscriber has opted-in to receive is e-mailed to the subscriber at 240, and the subscriber responses are tracked at 250.

The information collected is then used for purposes such as to calculate incentives and payouts for the program participants, at 260. Additionally, the ad server can analyze the collected information by categories/fields, including but not limited to, website, ezine, ad campaign, ad, ad position, subscriber (including demographics, etc.), time, etc. to improve the effectiveness of the marketing response.

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1 As disclosed above, the present invention makes it easy to collect, manage, and communicate with consumers using e-mail and other forms of push-based messaging as the 2 3 primary vehicle for communication of marketing content. The present system makes it 4 simple to offer bounties or other types of compensation to any participant interested in referring new users into the system as well as offer a multiple tier referral system so that 5 6 those participants can refer others as well. The present invention makes it possible to track 7 the entire path of a communication and all of the actions inside of it for modeling, reporting, 8 auditing and other analytical purposes. The system also simplifies the process for generating 9 custom marketing communications in large capacity. The present invention simplifies the 10 process of enabling the selection, insertion and delivery of marketing communications inside 11 of the main communication layer and enables an administrator to easily administer all aspects 12 of the software from an intuitive web based interface. As disclosed, it enables the systems to run self-sufficient and be monitored for maximum performance. The present invention also 13 14 enables the entire system to be scaleable.

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2	1.	A method for e-mail-based opt-in mark	eting, comprising:
_		15 modice for a main capes obt in main	TOTAL CONTIDITIONS

- 3 providing an ad server connected to an internet;
- 4 providing a database connected to said ad server;
- 5 having at least one webmaster server connected to said internet;
- 6 having at least one internet-enabled subscriber device connected to said internet;
- 7 providing software instructions on each said webmaster server for collecting an e-mail
- 8 address for said subscriber device and storing said e-mail address on said database by having
- 9 an operator of said subscriber device input said e-mail address and make a selection to opt-in
- 10 for delivery of information and/or content to said e-mail address; and
- providing software instructions on said ad server to facilitate delivery of said
- 12 information and/or content to said subscriber device, wherein said information and/or content
- 13 includes an ad.
- 14 2. The method of claim 1, further comprising providing an incentive to said subscriber.
- 15 3. The method of claim 2, wherein said incentive is for responding to said ad and is
- selected from the group consisting of redeemable program points, prizes, discounts on goods
- 17 or services, sweepstakes entries, currency, and goods or services.
- 18 4. The method of claim 1, further comprising providing compensation to said webmaster
- 19 or said subscriber for referrals.
- 20 5. The method of claim 1, further comprising providing compensation to said webmaster
- 21 or said subscriber for subscriber responses to ads in said information and/or content.
- 22 6. The method of claim 1, wherein said information and/or content is selected from the
- 23 group consisting of ezines, newsletters, alerts and marketing messages.
- 24 7. A system for e-mail-based opt-in marketing, comprising:
- an ad server connected to an internet;
- a database connected to said ad server;
- at least one webmaster server connected to said internet;
- at least one internet-enabled subscriber device connected to said internet;
- 29 software instructions on each said webmaster server for collecting an e-mail address
- 30 for said subscriber device and storing said e-mail address on said database by having an
- 31 operator of said subscriber device input said e-mail address and make a selection to opt-in for
- 32 delivery of information and/or content to said e-mail address; and

software instructions on said ad server to facilitate delivery of said information and/or

- 2 content to said subscriber device, wherein said information and/or content includes an ad.
- 3 8. The system of claim 7, further comprising means to provide an incentive to said
- 4 subscriber for opting-in.
- 5 9. The system of claim 8, wherein said incentive is selected from the group consisting of
- 6 redeemable program points, prizes, discounts on goods or services, sweepstakes entries,
- 7 currency, and goods or services.
- 8 10. The system of claim 7, further comprising means for providing compensation to said
- 9 webmaster or said subscriber for referrals.
- 10 11. The system of claim 7, further comprising means for providing compensation to said
- 11 webmaster or said subscriber for subscriber responses to ads in said information and/or
- 12 content.
- 13 12. The system of claim 7, wherein said information and/or content is selected from the
- 14 group consisting of ezines, newsletters, and marketing messages.
- 15 13. A method for encouraging consumers to participate in an e-mail marketing program,
- 16 comprising:
- 17 providing means for said consumer to opt-in to subscribe to receive ad-containing
- 18 information and/or content at their e-mail address from said e-mail marketing program:
- 19 providing software to said consumer to allow said consumer to refer other consumers
- 20 to said e-mail marketing program as referrals;
- 21 providing compensation to said consumer for any referrals; and
- 22 providing incentives to said consumer for responding to ads in said information and/or
- 23 content.
- 24 14. The method of claim 13, wherein said compensation is selected from the group
- 25 consisting of currency, goods or services, discounts on goods or services, redeemable
- 26 program points and prizes.
- 27 15. The method of claim 13, wherein said incentives are selected from the group
- 28 consisting of sweepstakes entries, currency, goods or services, discounts on goods or
- 29 services, redeemable program points and prizes.
- 30 16. The method of claim 13, wherein said information and/or content is selected from the
- 31 group consisting of ezines, newsletters, and marketing messages.
- 32 17. A method for encouraging webmasters to participate in an e-mail marketing program.

1	comp	rising:				
2		providing software to said webmaster to allow said webmaster to subscribe consumers				
3	to rec	to receive ad-containing information and/or content at their e-mail address from said e-mail				
4	mark	eting program;				
5		providing software to said webmaster to allow said webmaster to refer other				
6	webmasters to said e-mail marketing program as referrals;					
7		providing compensation to said webmaster for any referrals; and				
8		providing compensation to said webmaster for subscribing consumers to said e-mail				
9	mark	eting program.				
10	18.	The method of claim 17, wherein said compensation is selected from the group				
11	consi	sting of currency, goods or services, discounts on goods or services, redeemable				
12	progr	am points and prizes.				
13	19.	The method of claim 17, wherein said information and/or content is selected from the				
14	group	consisting of ezines, newsletters, and marketing messages.				
15						

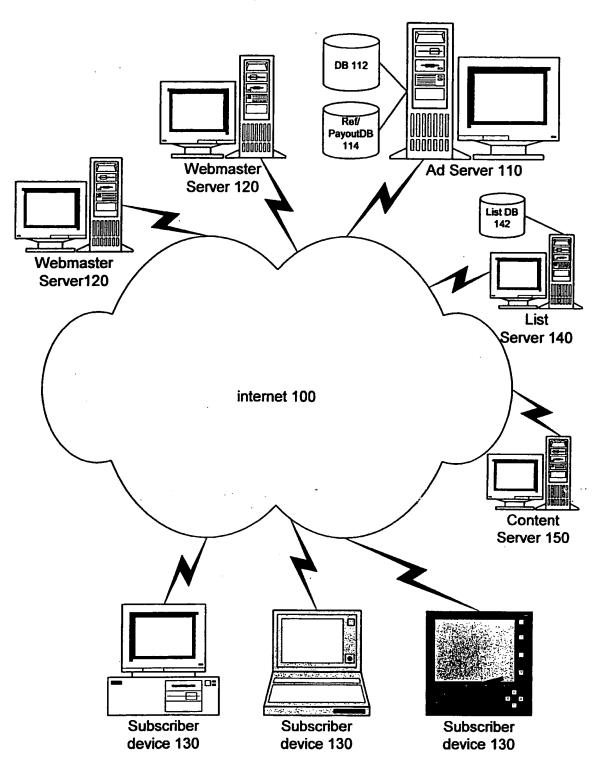


FIG. 1

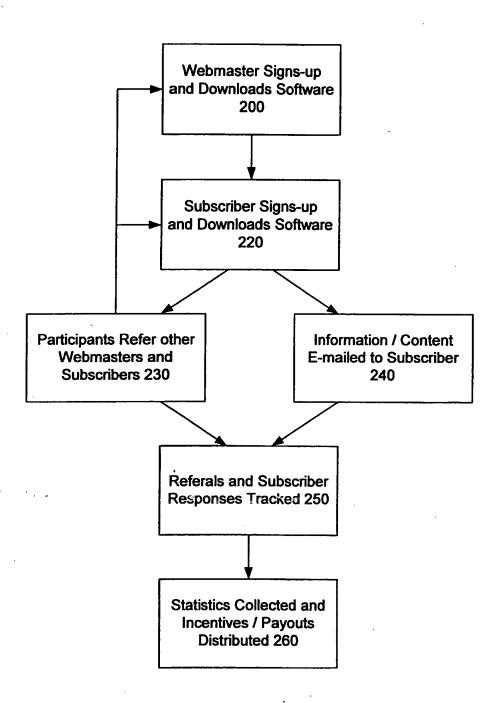


FIG. 2